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Family Name

Republic of Korea

Country of Citizenship

			
Attorney Reference:			TION AND POWER OF ATTORNEY F.R. 1.63) FOR PATENT APPLICATION
			ATES PATENT AND TRADEMARK OFFICE
believe I am the orig below) of the subject	inal, first and sole inventor t matter which is claimed a	r (if only one name is listed below) or an o and for which a patent is sought on the <u>IN</u> '	d citizenship are as stated below next to my name, and I priginal, first and joint inventor (if plural names are listed IVENTION ENTITLED: ATION IN TERRESTRIAL DIGITAL
BROADCASTIN	G RECEIVER	•	
<u> </u>	cification of which: (check is attached hereto.	one applicable box)	
В. 🗌	was filed on	as U.S. Applic	
	was filed as PCT Intern U.S. or PCT application) v	ational Application No. PCT/ KR vas amended on	R2004/000707 on 27/03//2004
above. I acknowledge foreign priority benefits which designated at le or PCT International A	the duty to disclose all informa under 35 U.S.C. 119(a)-(d) or ast one other country than the oplication, filed by me or my as	ation known to me to be material to patentability 365(b) of any foreign application(s) for patent of United States, listed below and have also identi	, including the claims, as amended by any amendment referred to y as defined in 37 C.F.R. 1.56. Except as noted below, I hereby clain or inventor's certificate, or 365(a) of any PCT International Application lified below any foreign application for patent or inventor's certificate, in this application and having a filing date (1) before that of the cation:
PRIOR FOREIGN A	PPLICATION(S)		
Application/Pater	(Gountary	Day/Month/Mear/filed Date/fil	Vilioficion elsellates Street
10-2003-0082725	Republic of Korea	20/11/2003	rainet Graniet
10-2003-0002720	Republic of Rorea	20/11/2000	
PRIOR U.S. PROVI	min 1	NAL AND/OR PCT APPLICATION(S) (th///ear/filed (pendin	Status No pulpulty nglabandoned/patented) clafined
nat these statements to 001 of Title 18 of the	vere made with the knowledge United States Code and that s	that willful false statements and the like so mad uch willful false statements may jeopardize the v	nts made on information and belief are believed to be true; and furthed are punishable by fine or imprisonment, or both, under Section validity of the application or any patent issued thereon;
associated with USPTO the Patent and Tradem persons no longer with person/assignee/attorn	O Customer No. 43569, as set ark Office connected therewith their firm, to add new persons ey/firm/ organization who/whice	forth below, individually and collectively, as my a and with the resulting patent, and I hereby auth of their firm to that Customer Number, and to a	munications are to be directed), and persons of that firm who are counsel to prosecute this application and to transact all business in thorize them to delete from that Customer Number the names of act and rely on instructions from and communicate directly with the hich I hereby declare that I have consented after full disclosure to be ary.
MAYER BROW	ONLY FOR N ROWE & MAW LLP NGTON, D.C.	*000043569	* (Customer No. for communications)
(1) INVENTOR'S SI	GNATURE: Sund	to Paul	Date: 2006, 4,28
Name St	ıng-lk	PARK	
	First	Middle Initial	Family Name
Residence Da		1	
toeraeries E	ejon	Republic of Korea	Republic of Korea
	City	State/Fore	eign Country Country of Citizenship
	City		eign Country Country of Citizenship
Mailing Address (2) INVENTOR'S SI	City 146-14, Sinseong-dong	State/Fore	eign Country Country of Citizenship

Middle Initial

#109-1804 Narae Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-729, Republic of Korea

Republic of Korea

State/Foreign Country

First

City

Daejon

Residence

Mailing Address

Middle Initial

State/Foreign Country

Family Name

Country of Citizenship

First

City

Residence

Mailing Address

	•
Attomey Reference: P03EC085/US	DECLARATION AND POWER OF ATTORNEY RULE 63 (37 C.F.R. 1.83) FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
As a below named inventor, I hereby declare that my resider	nce, post office address and citizenship are as stated below next to my name.

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original; first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED;

APPARATUS AND METHOD OF DECISION FEEDBACK EQUALIZATION IN TERRESTRIAL DIGITAL

BROADCASTING RECEIVE

			_		
the specification of which: (check one applicable box)					
A. is attached hereto.					
B. was filed on	as U.S.	Application No.	1		
C. 🛛 was filed as PCT International Application I	No. PCT/	KR2004/000707	on	27/03//2004	
and (if applicable to U.S. or PCT application) was amended on					

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R, 1.56. Except as noted below, I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 385(b) of any foreign application(e) for petent or inventor's certificate, or 385(a) of any PCT international Application which designated at least one other country than the United States, listed below and have also identified below any toroign application for patent or inventor's certificate, or PCT international Application, filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

Application/Patent Number	Country	Day/Month/Year filed	Date first laid open/outlished	Patent/Grant date	No priority cisimed
10-2003-0082725	Republic of Korea	20/11/2003			

it more orier foreign applications. X box at bottom and continue on attached page.

Except as noted below. I hereby claim demestic priority benefit under 35 U.S.C. 119(a) or 120 and/or 365(c) of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, i acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1,66 which became available between the filling date of each such prior application and the national or PCT international filling date of this application:

PRIOR U.S. PROVISIONAL NONPROVISIONAL AND/OR PCT APPLICATION(6)

Application Number	Day/Month/Year filed	Status (Rendipolaberdened/batented)	No priority claimed
L			

I hereby declars that sit statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that within take estatements and the like to made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such within false statements may jeopardize the validity of the application or any patent issued thereon;

And I hereby appoint Mayer Brown Rowe & Maw LLP, interfectual Property Group (to whom all communications are to be directed), and persons of that firm who are associated with USPTO Customer No. 43569, as set forth below, individually and collectively, as my counsel to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby suthorize from to delete from that Customer Number the names of persons no tonger with their firm, to add new persons of their firm to that Customer Number, and to act and rety on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct the above firm and/or an attorney of that firm in writing to the contrary.

USE ONLY FOR MAYER BROWN ROWE & MAW LLP WASHINGTON, D.C.

000043569

(Customer No. for communications)

Country of Citizenship

(1) INVENTO	R'S SIGNATURE:		Date:	
Name	Sung-ik	PARK		
	First	Middle Initial	Fec	mily Name
Residence	Daejon	Republic of Korea	\	Republic of Korea
	City	State/Fore	ign Country	Country of Clitzenship
Mailing Addres	ss 146-14 Sinseong-dong Y	useong-gu, Daejon 305-804, Republic	of Korea	
(2) INVENTO	R'S SIGNATURE:	>	Date: 04	124/2006
Name	Seung-Won	KIM		
	First	Middle Initial	For	mily Name
Residence	Daeion	Republic of Korea		Republic of Korea

#109-1804 Narse Apt., Jeonmin-dong, Yuseong-gu, Daelon 305-729, Republic of Korea

State/Foreign Country

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Mailing Address

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=	CIONAL INVENTORS, see attached page. Sinal foreign priorities on attached page (inc DECLARATION	corporated herein by I N AND POWER O ADDITIONAL INV	F ATTORNEY (continue	ed)	
(3) INVENTOR	S SIGNATURE:		Date:		
Name	Hyoung-Nam		KIM		
	First	Middle Initial		Family Name	
Residence	Busan	Republic of Kore		Republic of Korea	
	City		State/Foreign Country	Country of Citizensh	ıip
Mailing Address	San 30, Jangjeon-dong, Geumjeon	ng-gu, Busan 609-836	6, Republic of Korea		
(4) INVENTOR	S SIGNATURE:		Date:		
Name					
	First	Middle Initial		Family Name	
Residence		Republic of Kore	ea	Republic of Korea	
	City		State/Foreign Country	Country of Citizensh	nip
Mailing Address	5				
	S SIGNATURE:	T	Date:		
Name		Adjudation to the time		Enmily Norse	
D11	First	Middle Initial		Family Name	
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Walling Address					
(6) INVENTOR	S SIGNATURE:	· -·	Date:	<u> </u>	
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	First	Middle Initial		Family Name	
Residence					
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Mailing Address					
(7) INVENTOR	e cicnature.		Data		
Name	S SIGNATURE:		Date:		
Name	First	Middle Initial	<u> </u>	Family Name	
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ricsiderice	City		State/Foreign Country	Country of Citizensh	nin
Mailing Address			Otales oreign Country	Country of Ottizerish	<u> </u>
(8) INVENTOR'	S SIGNATURE:		Date:		
Name					
	First	Middle Initial		Family Name	
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	City		State/Foreign Country	Country of Citizensh	ip
Mailing Address					ip C
(9) INVENTOR'	S SIGNATURE:		Date:		
Name					
	First	Middle Initial		Family Name	
Residence					
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	'S SIGNATURE:		Date:		<u> </u>
Name	<u></u>	<u> </u>			— -
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Client Reference:	P03EC065/US		RULE 63 (37 C.F.R. 1.63) FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE			
believe I am the originate below) of the subject n	al, first and sole inventor natter which is claimed a	(if only one name is liste nd for which a patent is s	fice address and citizenship a d below) or an original, first a cought on the <u>INVENTION EN</u> K EQUALIZATION IN	ind joint inventor (if plural na	mes are listed	
BROADCASTING	RECEIVER					
	fication of which: (check attached hereto.	one applicable box)				
B.	as filed on		as U.S. Application No.			
C. ⊠ w and (if applicable to U.	as filed as PCT Interna S. or PCT application) w	ational Application I as amended on	No. PCT/ KR2004/00070	7 on 27/03//2004	· · · · · · · · · · · · · · · · · · ·	
I hereby state that I have above. I acknowledge the foreign priority benefits un which designated at least or PCT International Appli	reviewed and understand the duty to disclose all information of U.S.C. 119(a)-(d) or one other country than the lication, filed by me or my as	e contents of the above iden tion known to me to be mate 365(b) of any foreign applica United States, listed below a	tified specification, including the rial to patentability as defined in a tion(s) for patent or inventor's cend have also identified below any matter claimed in this application date of this application:	37 C.F.R. 1.56. Except as noted rtificate, or 365(a) of any PCT In rforeign application for patent or	below, I hereby claim ternational Application inventor's certificate,	
PRIOR FOREIGN APP	PLICATION(S)					
Application/Patent Number	Country	Day/Month/Year filed:	Date first laid open/published	Patent/Grant date	No priority claimed	
10-2003-0082725	Republic of Korea	20/11/2003				
			 			
If more prior foreign app	lications. X box at bottom	and continue on attached	page.			
defined in 37 C.F.R. 1.56	which became available bet ONAL, NONPROVISION	ween the filing date of each AL AND/OR PCT APPLI	the duty to disclose all informatis such prior application and the natical CATION(S) Status	tional or PCT international filing of		
					claimed	
that these statements wer 1001 of Title 18 of the Uni And I hereby appoint Maye	e made with the knowledge ted States Code and that su er Brown Rowe & Maw LLP	that willful false statements a ch willful false statements m Intellectual Property Group	that all statements made on in and the like so made are punishat ay jeopardize the validity of the (to whom all communications are collectively, as my counsel to pro	ble by fine or imprisonment, or bapplication or any patent issued to be directed), and persons of	oth, under Section thereon; that firm who are	
the Patent and Trademark persons no longer with the person/assignee/attorney/ represented unless/until I	 Office connected therewith ir firm, to add new persons firm/ organization who/whicl instruct the above firm and/a 	and with the resulting paten of their firm to that Custome	t, and I hereby authorize them to r Number, and to act and rely on m and by whom/which I hereby d	delete from that Customer Numi instructions from and communic	per the names of ate directly with the	
USE ONLY FOR MAYER BROWN ROWE & MAW LLP WASHINGTON, D.C. *00043569* (Customer No. for communications)						
(1) INVENTOR'S SIGN	IATURE:		Date:			
Name Sung			PARK			
	First	. Middle Init		Family Name		
Residence Daej		Republic		Republic of		
Mailing Address	City 146-14, Sinseong-dong,	Yuseong-gu, Daejon 30	State/Foreign Country 5-804, Republic of Korea	Count	ry of Citizenship	
(2) INVENTOR'S SIGN	IATURE:		Date:			
Name Seun	g-Won		KIM			
	First	Middle Init	al	Family Name		
Residence Daejo	on	Republic	of Korea	Republic of	Korea	
	City		State/Foreign Country		ry of Citizenship	
Mailing Address	#109-1804 Narae Apt.,	leonmin-dong, Yuseong-	gu, Daejon 305-729, Republi	c of Korea		

DECLARATION AND POWER OF ATTORNEY

Attorney Reference: _____P03EC065/US

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See addition	nal foreign priorities	on attached page (inco		reference). DF ATTORNEY (contir	uod)	
			ADDITIONAL IN		iueu)	
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(3) INVENTOR'S	SIGNATURE:	Hornkim		Date:	28/04	/2006
Name	Hyoung-Nam			KIM		
		First	Middle Initial		Family	
Residence	≀Busan		Republic of Ko			Republic of Korea
		City		State/Foreign Country		Country of Citizenship
Mailing Address	San 30, Jang	jeon-dong, Geumjeong	g-gu, Busan 609-83	6, Republic of Korea		
(4) (1) (2) (3)	0.00.471.00			5 A		
(4) INVENTOR'S	SIGNATURE:			Date:		
Name			Middle Initial	<u></u>	Family	Mama
Residence		-1151	Republic of Ko		ганиу	Republic of Korea
Residence		City	Republic of No.	State/Foreign Country		Country of Citizenship
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(5) INVENTOR'S	S SIGNATURE:			Date:		
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(6) INVENTOR'S	SIGNATURE:			Date:		
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(7) INVENTORIO	CIONATURE					
(7) INVENTOR'S	SIGNATURE:			Date:		
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Residence	٠.	11St -	Wilde Hillar		railily i	Varie
Residence		City		State/Foreign Country		Country of Citizenship
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(8) INVENTOR'S	SIGNATURE:			Date:		
Name						
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Residence						
		City		State/Foreign Country		Country of Citizenship
Mailing Address						
(9) INVENTOR'S	SIGNATURE:			Date:		
Name	•.					
	F	irst	Middle Initial		Family 1	Name
Residence						<u>L </u>
		City		State/Foreign Country		Country of Citizenship
Mailing Address			-			
/40) MD/PART	0.0101147::			. .		
(10) INVENTOR	S SIGNATURE:			Date:	·	
Name	-		Middle Initial	<u> </u>	F	lomo
Residence	<u> </u>	irst	Middle Initial		Family N	Name .
residence		City	<u> </u>	State/Foreign Country		Country of Citizenship
Mailing Address		Oily .		owari orașii oouluj		Country of Officeriship
aming Address	<u></u>					

SUBMISSION OF CORRECTION

To: Commissioner of the Korean Intellectual Property Office

							
Interna Applicat		PCT/KR2004/000707	International Filling Date	27/03/2004	Priority Date	20/11/2003	
	Name	Electronics and Telecommunications Research Institute et al.			Country of Nationality	Republic of Korea	
Applicant Address 161, Gajeong-dong, Yuseong-gu, Daejon 3				u, Daejon 305-3	50, Republi	c of Korea	
	Name	Shinsung Patent Fir	m Agent's Code	9-2000-100004-8	Tel. No.	82-2-555-7503	
Agent		Haecheon Bldg., 741-40, Yeoksam 1-dong, Kangnam-ku, Seoul 135-924 Republic of Korea					
Date of Invitation					·		
Material(s) to be Corrected		Power of Attorney					
Contents of Remedy		See Attached Docum	nent				

Submitted hereby is a correction pursuant to Article 101(2) of the Enforcement Regulations of the Patent Law

Date(day/month/year)

27 / 04 / 2004

Applicant (Agent)

Shinsung Patent Firm



1. Three Copies of Power of Attorney

^{*} Attached Document(s)

GENERAL POWER OF ATTORNEY

Agent

Name: SHINSUNG PATENT FIRM

Address: Haecheon Bldg., 741-40, Yeoksam 1-dong, Kangnam-ku

Seoul 135-924, Republic of Korea

I/We, the undersigned, do hereby appoint the above-identified agent as my/our agent to act for me/us in proceedings concerning all of my/our International Applications.

Date: September 16, 2002

Applicant

Name: Electronics and Telecommunications Research Institute

(Seal)-2

Address: 161 Septemg-dong, Yuseong-gu, Daejon, 305-350,

Republic of Korea

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)
(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):					
Sung-Ik Park	·				
hereby appoints(appoint) the following person as:	■ agent □ common representative				
Name and address (Family name followed by given name; for a legal entity, full of country.)	official designation, The address must include postal code and name				
SHINSUNG PATENT FIRM	·				
Haecheon Bldg., 741-40, Yeoksam 1-dong, Kan Seoul 135-924, Republic of Korea	ngnam-gu				
to represent the undersigned before	■ all the competent International Authorities				
	☐ the International Searching Authority only				
	☐ the International Preliminary Examining Authority only				
in connection with the international application identif	ied below:				
Title of the invention: *					
Applicant's or agent's file reference: P03EC065/PCT					
International application number (if already available): PCT/KR2004/000707					
filed with the following Office Korean Intellectu	al Property Office as receiving office				
and to make or receive payments on behalf of the undersigned.					
Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):					
Name: Sung-Ik Park					
Address: 146-14, Sinseong-dong, Yuseong-gu, Daejon 305-804, Republic of Korea					
Date: 2004, 3, 25					

Form PCT/Model of power of attorney (for a given international application)(July 1992)
*APPARATUS AND METHOD OF DECISION FEEDBACK EQUALIZATION IN TERRESTRIAL DIGITAL BROADCASTING RECEIVER

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)
(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):					
Seung-Won Kim					
hereby appoints(appoint) the following person as:					
Name and address (Family name followed by given name; for a legal entity, full official designation, The address must include postal code and name of country.)					
SHINSUNG PATENT FIRM					
Haecheon Bldg., 741-40, Yeoksam 1-dong, Kangnam-gu Seoul 135-924, Republic of Korea					
to represent the undersigned before					
☐ the International Searching Authority only					
☐ the International Preliminary Examining Authority only					
in connection with the international application identified below:					
Title of the invention: *					
Applicant's or agent's file reference: P03EC065/PCT					
International application number (if already available): PCT/KR2004/000707					
filed with the following Office Korean Intellectual Property Office as receiving office					
and to make or receive payments on behalf of the undersigned.					
Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):					
Name : Seung-Won Kim (Signature)					
Address: #109-1804 Narae Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-729, Republic of Korea Date: 2004, 3, 2					

Form PCT/Model of power of attorney (for a given international application)(July 1992)
*APPARATUS AND METHOD OF DECISION FEEDBACK EQUALIZATION IN TERRESTRIAL
DIGITAL BROADCASTING RECEIVER

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)
(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):					
Hyoung-Nam Kim					
hereby appoints(appoint) the following person as:	■ agent	☐ common representative			
Name and address (Family name followed by given name; for a legal entity, full official designation, The address must include postal code and name of country.)					
SHINSUNG PATENT FIRM					
Haecheon Bldg., 741-40, Yeoksam 1-dong, Kangnam-gu Seoul 135-924, Republic of Korea					
to represent the undersigned before	■ all the competent Interna	ational Authorities			
	☐ the International Searchi	ng Authority only			
	. ☐ the International Prelimi	nary Examining Authority only			
in connection with the international application identified below:					
Title of the invention: *					
Applicant's or agent's file reference: P03EC065/PCT					
International application number (if already available): PCT/KR2004/000707					
filed with the following Office Korean Intellect	ual Property Office	as receiving office			
and to make or receive payments on behalf of the undersigned.					
Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs if such capacity is not obvious from reading the request or this power):					
Name: Hyoung-Nam Kim					
Address: San 30, Jangjeon-dong, Geumjeo Republic of Korea	ng-gu, Busan 609-836,				
Date: Mar. 25, 2004					

Form PCT/Model of power of attorney (for a given international application)(July 1992)

^{*} APPARATUS AND METHOD OF DECISION FEEDBACK EQUALIZATION IN TERRESTRIAL DIGITAL BROADCASTING RECEIVER: